

In the Claims

Please amend the claims by substituting the following clean versions as indicated below. The changes are shown explicitly in the attached "Version with Markings to Show Changes Made."

Please amend claim 1 as follows:

E2 1. (Twice Amended) A magnet pole position detector for a rotor that has a plurality of magnets disposed on a circular periphery, rotates with a rotation shaft, and forms a part of an electric motor that has a stator provided with a plurality of coils, the detector comprising:

plates of the same number as the magnets, the plates being made of a magnetic material, each of the plates being disposed on the rotor at a position along a circular path nearby a corresponding magnet and magnetized by leakage flux of the corresponding magnet, the leakage flux being magnetic flux which is not directed towards the coils of the stator; and

a magnetic sensor outputting a signal in response to a variation of a magnetic flux density on the circular path.

Please add the following new claims:

E3 34. A magnet pole position detector for a rotor that has a plurality of magnets disposed on a circular periphery, rotates with a rotation shaft, and forms a part of an electric motor that has a stator provided with a plurality of coils, the detector comprising:

plates of the same number as the magnets, the plates being made of a magnetic material and being independent from each other, each of the plates being disposed on the rotor at a position along a circular path nearby a corresponding magnet and magnetized by leakage flux of the corresponding magnet; and

a magnetic sensor outputting a signal in response to a variation of a magnetic flux density on the circular path.

35. (New) A magnet pole position detector for a rotor that has a plurality of magnets disposed on a circular periphery, rotates with a rotation shaft, and forms a part of an electric motor that has a stator provided with a plurality of coils, the detector comprising:

*E3  
encl'd.*

plates of the same number as the magnets, the plates being made of a magnetic material, each of the plates being fixed to the rotor via a non-magnetic material at a position along a circular path nearby a corresponding magnet and magnetized by leakage flux of the corresponding magnet; and

a magnetic sensor outputting a signal in response to a variation of a magnetic flux density on the circular path.

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